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DTIC: Your Key to DoD Scientific & Technical Information

**R. Paul Ryan
Administrator
Defense Technical Information Center**

**EUCOM & AFRICOM S&T Conference
Stuttgart, Germany
June 2009**

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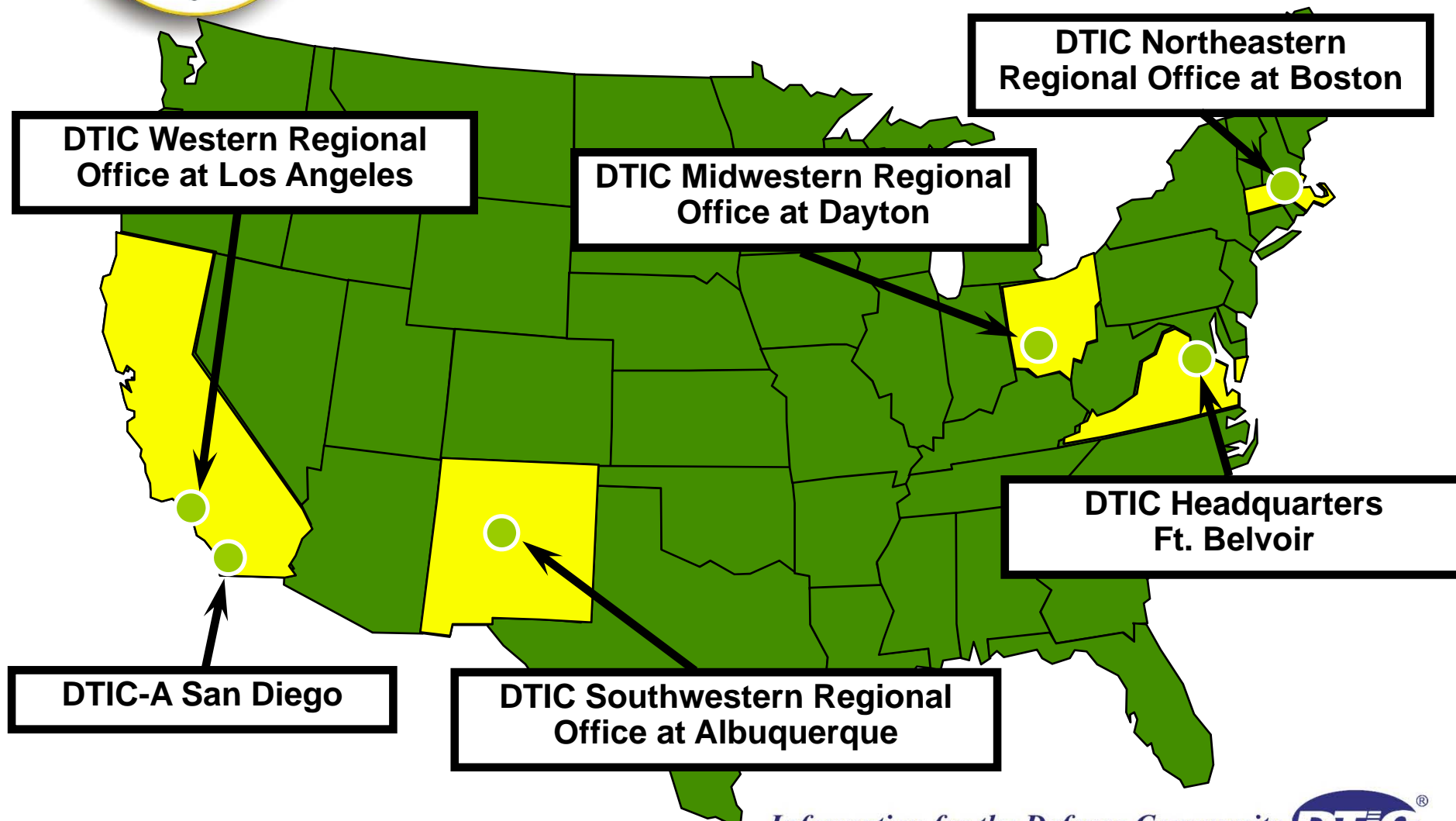
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Why Contact DTIC for Your DoD Scientific & Technical Information?



DTIC's Mission

***To provide essential, technical
research, development, testing
& evaluation (RDT&E)
information rapidly, accurately
and reliably to support our DoD
customers' needs***



How We Accomplish Our Mission

- Single point of access for Defense Scientific and Technical Information (STI)
- Centralized collection and secondary dissemination of Scientific and Technical Information
- Controlled access to information products and networks
- Balance of scientific community's need for open access to information and DoD's need for limitations on access
- Management of DoD / DTIC Information Analysis Centers
- Hosting of Web sites for major components of DoD
- Focal point for the Office of the Secretary of Defense (OSD) policy relating to STI



Why Register with DTIC?

DTIC:

- Leverages the multi-billion dollar investment in DoD research and engineering
- Prevents unnecessary or redundant research
- Gets scientific and technical information into the hands of the right people in the Defense community at the right time
- Enables the conversion of completed research into the production of mature technology to support the warfighter



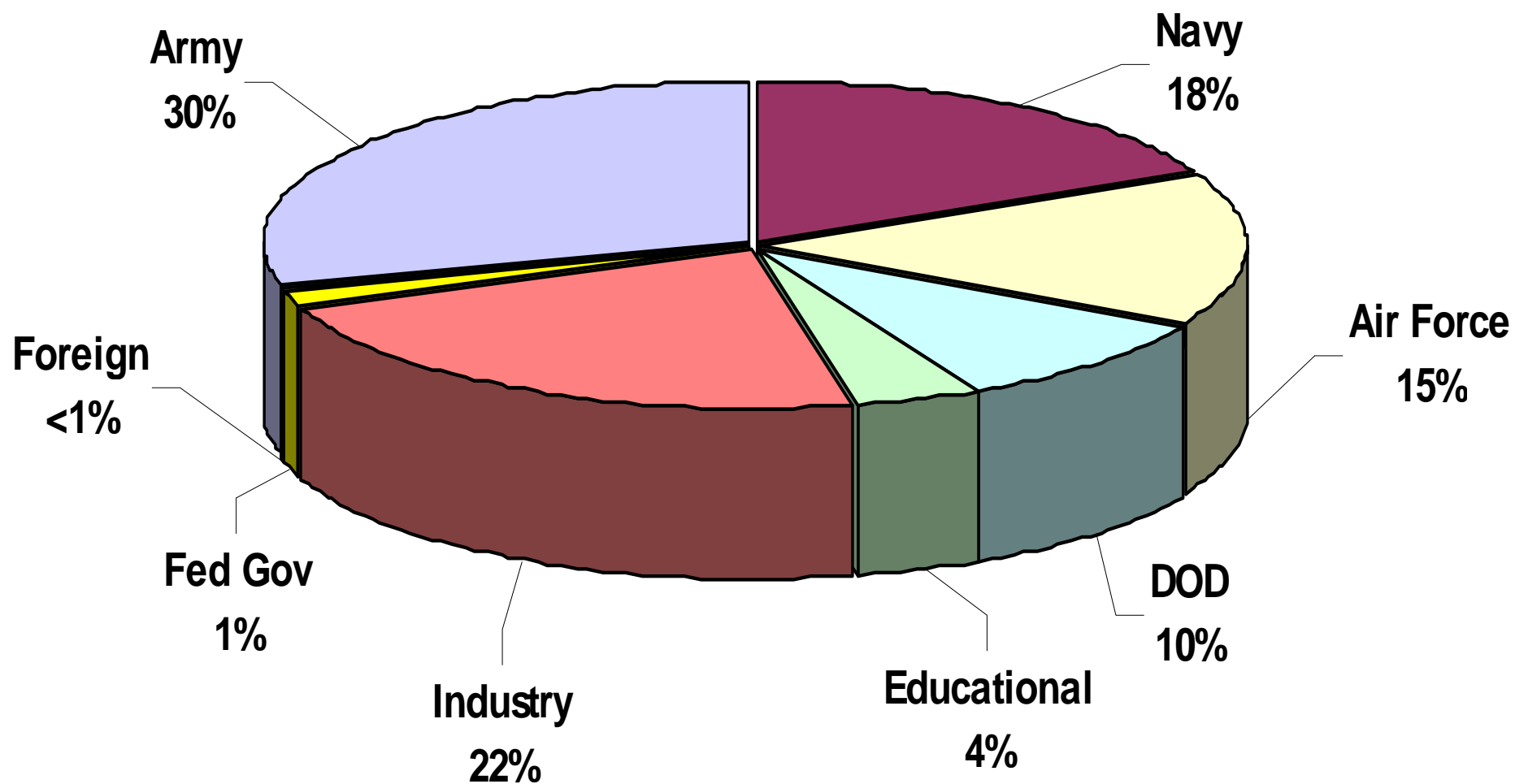
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- Participants in the Small Business Innovation Research or Small Business Technology Transfer program (SBIR/STTR)
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Title:

Early Lessons Learned from the Army's Future Combat Systems Program (FCS): Developing an Appropriate Contractual Arrangement with Industry, Establishing an Enabling Program Management Structure and Test Organization

Fields and Groups :

190300 - Combat Vehicles

150100 - Military Forces and Organizations

050100 - Administration and Management

Corporate Author:

NAVAL POSTGRADUATE SCHOOL MONTEREY CA GRADUATE SCHOOL OF BUSINESS AND PUBLIC POLICY

Personal Author(s):

Yakovac, Joseph

Report Date:

30 Sep 2007

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45 Pages(s)

Media Code:

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Full Citation Includes Descriptors, Identifiers, & Abstract

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Identifiers:

COMBINED ARMS WARFARE, FCS(FUTURE COMBAT SYSTEMS), BCT(BRIGADE COMBAT TEAMS), IRREGULAR WARFARE, INFORMATION OPERATIONS, SATELLITE ANTENNAS, FUTURE WARFARE, CAPABILITY GAPS, ON-THE-MOVE COMMUNICATIONS, GAP CROSSING CAPABILITIES, GROUND LINE OF COMMUNICATION SUSTAINMENT, HARDENED VEHICLES, EXTREMIST GUERRILLA ARMY, HISTORICAL ANALYSIS

Abstract:

The U.S. Army's first Future Combat System (FCS) equipped Brigade Combat Team (BCT) becomes fully operational in 2015. Concern for the possibility of combined arms capability gaps between planned FCS capacities and those required to defeat the expected 2015 dominant threat model -- the Extremist Guerrilla Army -- led to a study of combined arms operations (CAW). The author explores the nature of CAW, and through the use of synchronization theory explains how synchronization is the key process by which units are able to plan and conduct the simultaneous employment of a combination of arms, thereby benefiting from their synergistic effects. He also reviews the main historical developments in CAW from World War I to the present Iraq War, including World War II, Korea, Vietnam, and the Gulf War. The thesis then identifies 13 combined arms "enabling capabilities" necessary for FCS BCT success in the complex and lethal 2015 operational environment. These capabilities will defeat the Extremist Guerrilla Army, maintain freedom of movement across the battlefield, and positively influence the local populace to support U.S. objectives. In addition, five FCS BCT capability shortfalls are identified. These are five areas in which FCS BCTs will not be fully capable in the operational environment of 2015. These areas are as follows: the need for ruggedized SATCOM antennas, the capability to allow units to stay connected to FCS voice and data information networks while on the move, the need for FCS vehicles to be hardened against electronic attack in an age of nuclear proliferation, the need for specialized engineering vehicles to support route clearance and gap crossing missions, and the need for the Army to organize company-sized Information Operations (IO) units to support FCS BCTs in the expectation of the enemy's heavy use of IO.

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Size: 1 MB

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Citation Status:

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Title:

Combined Arms Warfare in the 21st Century: Maximizing the Capability of U.S. Army Equipped Brigade Combat Teams to Conduct Combined Arms Operations

Fields and Groups :

150607 - Unconventional Warfare

050600 - Humanities and History

Corporate Author:

ARMY COMMAND AND GENERAL STAFF COLL FORT LEAVENWORTH KS

Personal Author(s):

Reed, James W

Report Date:

13 Jun 2008

Media Count:

178 Pages(s)

Media Code:

Data Not Available

Organization Type:

A - ARMY

COMBINED ARMS WARFARE IN THE 21ST CENTURY: MAXIMIZING THE
CAPABILITY OF U.S. ARMY FUTURE COMBAT SYSTEM EQUIPPED BRIGADE
COMBAT TEAMS TO CONDUCT COMBINED ARMS OPERATIONS

A thesis presented to the Faculty of the U.S. Army
Command and General Staff College in partial
fulfillment of the requirements for the
degree

MASTER OF MILITARY ART AND SCIENCE
Military History

by

JAMES W. REED, MAJ, USA

B.A., California State University, Chico, CA, 1994

Fort Leavenworth, Kansas
2008



Digitization for Online Access and Free Downloads of Documents

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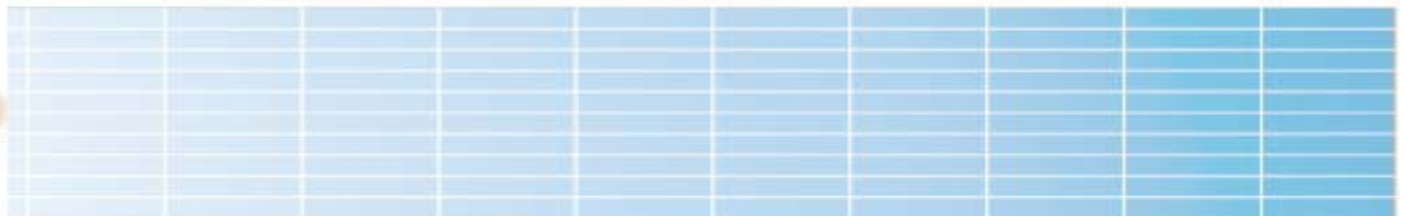
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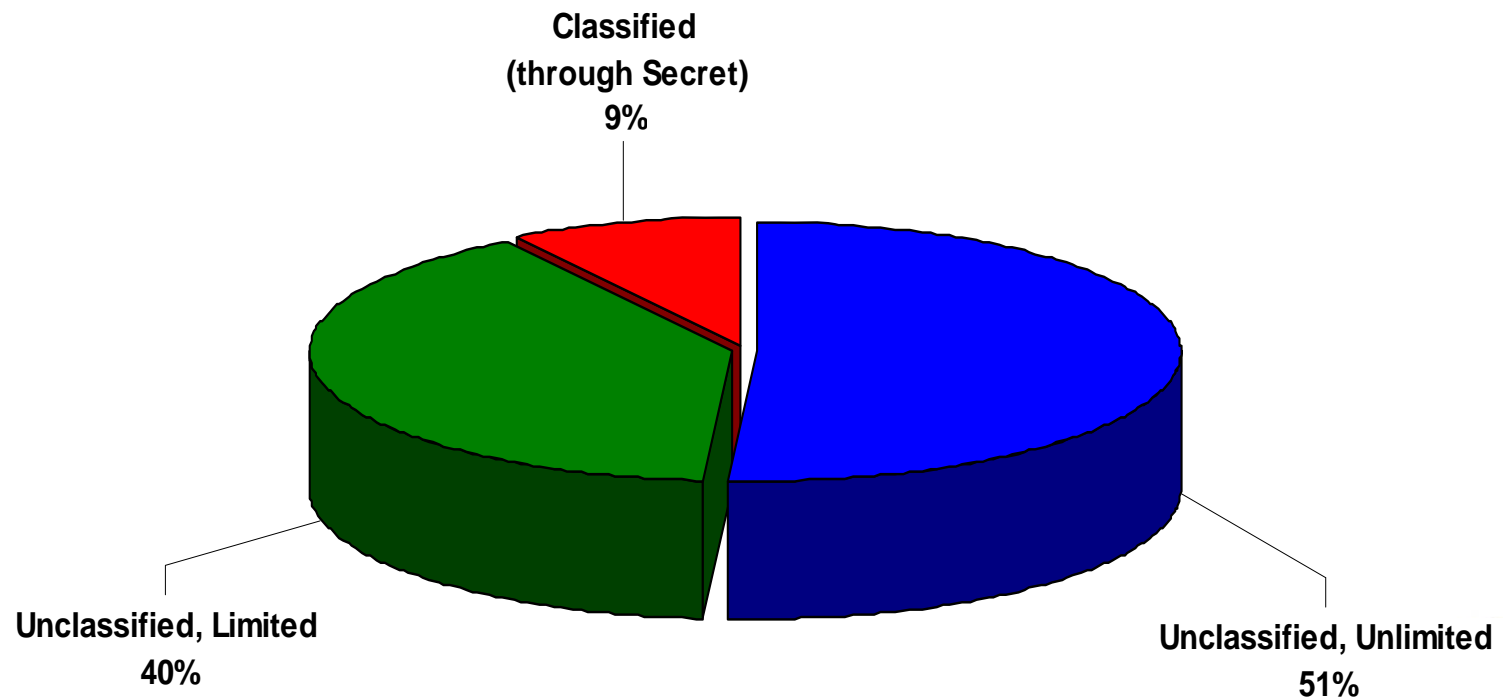




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SPARTAN Scout Unmanned Surface Vehicle

Recent attacks by nonconventional and terrorist forces have shown there is a need to address force protection issues of naval assets and shore-based facilities. SPARTAN Military Utility Assessments (MUAs) were conducted in FY 2006 ... [Full Story](#) [PDF](#)

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- Links to login for **Classified STINET** with complete collections of Tech Reports & Research Summaries
- Links to login for **Classified TEMS** with IAC docs
- Registration required for Classified
- Describes sites on NIPRNET
- Links to other SIPR sites
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The Defense Technical Information Center (DTIC) is the PREMIER provider of DoD technical information. DTIC is a DoD Field Activity under the Under Secretary of Defense for Acquisition, Technology and Logistics, reporting to the Director, Defense Research and Engineering (DDR&E).

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[R&E Portal - Where Did It Go?](#)

DoDTechipedia



DoDTechipedia is DoD's first enterprise-wide, social-networking tool focused on the science and technology community. Using a wiki format, DoDTechipedia's goal is to foster communication and collaboration among DoD scientists, researchers, program managers, acquisition professionals and warfighters that results in improved warfighting capabilities.

Announcements



Mark your calendars for the DTIC 2009 Conference to be held on 6-8 April at the Hilton Alexandria Old Town, Alexandria, Virginia. More information regarding this conference can be found on the Conference Web site located at <http://www.dtic.mil/dtic/annualconf/2009Home.html>.

[More Announcements ...](#)

DoD R&E Success Story



A160 Hummingbird UAV

The A160 program will exploit a hingeless, rigid-rotor concept operating at the optimum rotational speed to produce a vertical take-off and landing (VTOL) unmanned air vehicle

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R&E Database Search

The [Research and Engineering \(R&E\) Database Search](#) allows you to interrogate the data that the Services and Agencies submitted for the FY2006 and FY2007 DoD E-Gov Data Calls. In addition to the parameters you choose on the query screen, the search is limited by the

Coming Soon: DTIC Online Access Controlled – Integrated resources for DTIC registered users with personal customization of homepage



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DoDTechipedia: DoD S&T Wiki for Collaboration

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Welcome to DoDTechipedia

The technological superiority of the American military is essential to the defense of our nation. Maintaining this edge remains a challenge but one element should be agility. The generation of wikis, blogs, and web 2.0 has changed the way our work force accesses information. To address this agility, we have developed "DoDTechipedia."

We have developed DoDTechipedia to increase communication and collaboration among DoD scientists, engineers, and acquisition professionals, as well as operational warfighters, and ultimately academic and private sector partners. The goal is to break through existing stovepiped communication and coordination processes and allow researchers to collaborate directly with other researchers in related areas. DoDTechipedia will enable users to see and discuss the innovative technologies being developed throughout the DoD and also emerging technologies from the academic and private sectors. Greater collaboration will result in more rapid technology development and the discovery of innovative solutions to meet critical capability needs.

improve. To learn more about the purpose of DoDTechipedia, see the [DoDTechipedia Fact Sheet](#).

Feedback

- Please identify areas for **improvement** and fine tuning of the DoDTechipedia Wiki experience. Please go to the [Feedback](#) page.

Announcements

- Pilot (Beta) period ended Tuesday, Sep 30, 2008.
- We're now live!

See more announcements at [Inside DoDTechipedia](#).

Upcoming Events

Fosters communication between those with needs and those with answers.

Any user can edit content and add attachments.



DoDTechipedia

- **Unclassified, Access Controlled Site:**
<https://www.dodtechipedia.mil>
- **Internal Wiki available to:**
 - **DoD and DoD Contractors (CAC or DTIC login-password)**
 - **Federal Government and Federal Government Contractors (DTIC login-password)**



DoDTechipedia SIPRNET

- **Classified Site:**
<https://www.DoDTechipedia.smil.mil>
- **SIPR Wiki site available:**
 - Read Only Access: All SIPR users
 - Contributor to Wiki: DTIC registered user with DTIC login-password
- **Includes S&T Integrated Priority List (STIPL) for Combatant Commands**



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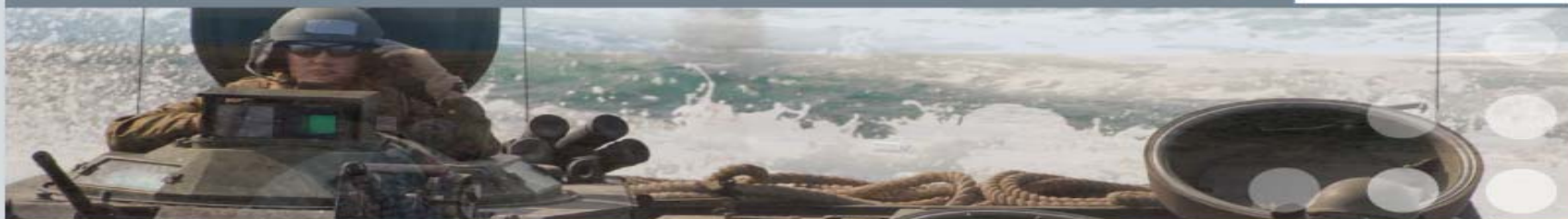


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Our process depends on direct communication with you when you submit an idea that is attractive in an area where we need a solution. The review process is continuous to avoid internal delays in decisions and review.

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- Focus on finding technical solutions to battlefield challenges
- Theme or area posted; e.g., Battlefield Forensics
- Invitation for technical experts, engineers, craftsmen, inventors, and organizations that may not currently contract with DoD to submit ideas
- Objective: Find good ideas & develop quickly
- 56 ideas submitted; 10 being pursued (5/28/09)



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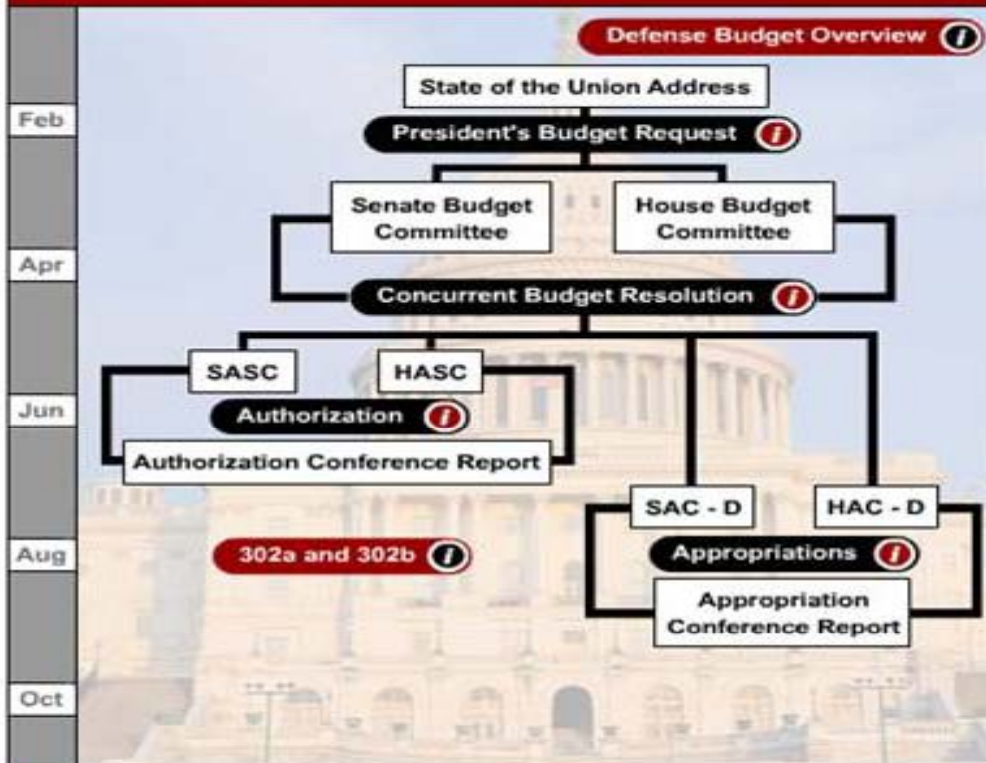


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Data and Analysis Center for Software
Information Assurance
Modeling & Simulation
Reliability
Sensor Technology
Survivability/Vulnerability
Weapons Systems Technology

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ITT
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Alion Science & Technology
Wyle Labs
Georgia Tech Research Ins *
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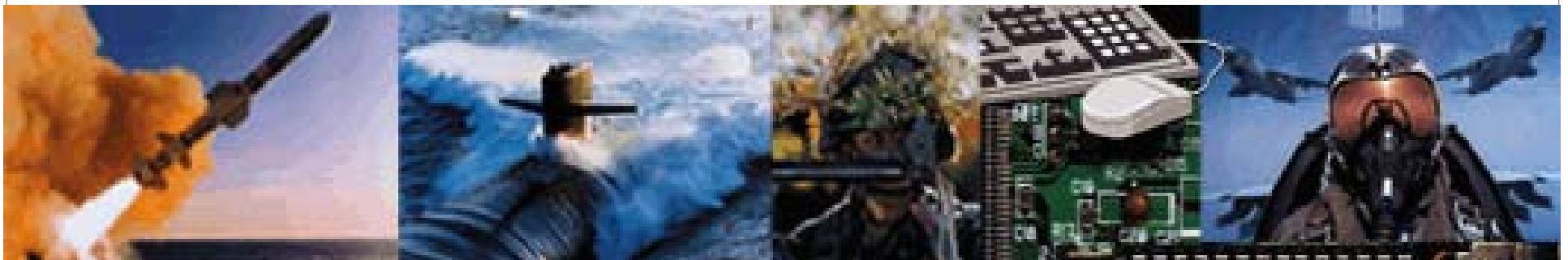
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<http://iac.dtic.mil>



IACs Are Centers of Excellence

- Managed by the Defense Technical Information Center
- Focused on providing knowledge management and solutions in a given domain
- Developing, capturing, managing and disseminating Scientific and Technical Information (STI)
- Helping synchronize their respective communities
- ...and solving tough problems





IACs Have Shared, Common Mission & Set of Core Services

- Collect, process & manage, analyze, disseminate STI
- Answer technical inquiries
- Maintain databases of subject matter experts, tools, & models
 - Tailored to the specific community needs
- Enable DoD & government to obtain additional support through TAT* program
- Conduct research and disseminate reports
 - Tools Reports, CR/TAs*, SOARs*
- Support DoD current awareness efforts
 - Newsletters, calendars, web, conferences

IACs serve as a bridge between Government, Academia, and Industry

*TAT: Technical Area Task

CR/TA: Critical Review and Technology Assessments

SOAR: State of the Art Report



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Under Secretary of Defense Acquisitions, Technology and Logistics**

November 18-19, 2008
Huntsville, Alabama





DTIC Accomplishments to Benefit S&T

- DTIC Online Public Released
- DTIC Online Unclassified on SIPRNET
- DTIC Online Access Controlled Near Completion
- DoDTechipedia and DoDTechipedia SIPRNET Launched
- DefenseSolutions Implemented
- Congressional Budget Data on Web
- Conference for Acquisition Community
- **Outreach to Combatant Commands**

Combatant Commanders **WORKSHOP**




Rapid **Technical Support For the Warfighter**

Sponsored by
The Honorable John J. Young
Defense Research and Engineering (DDR&E)

29-30 October 2007
Lockheed Martin's
Center For Innovation
Suffolk, Virginia

For more information call:
703-767-8248/8217

Information for the Defense Community 



DTIC Outreach to Combatant Commands

- **Operational Information Sharing – 2nd year**
- **DTIC working with Office, Assistant Secretary of Defense/Networks & Integration Information (NII)/DoD Chief Information Officer (CIO), Information Policy & Integration Directorate**
- **DTIC personnel available to provide briefings, training, reference, and on-site assistance with exercises for Combatant Commands**



DTIC Support for Exercises

Pacific Command (PACOM) Exercises

- DTIC participation in Hawaii exercise, Spring 2008 and Spring 2009

Northern Command (NORTHCOM) Exercise

- DTIC participation in Colorado exercise, Spring 2008



DTIC Support

- Advance research of Gaps on Classified STINET
- Embedded DTIC Librarian with TS for entire exercise
- No TDY cost to COCOMs for DTIC support
- DTIC training by Librarian to COCOMs
- DTIC reachback reference support with DoD, IAC, & other Web resources during exercise
- Communication possible via secure telecon and Defense Connect Online (DCO) SIPRNET

DEFENSE TECHNICAL INFORMATION CENTER

Combatant Commanders WORKSHOP

TAMPA, FLORIDA
November 3-4, 2009



DTIC Information for the Defense Community



Save The Date!

**DTIC 2010
Conference
March 22-24, 2010**

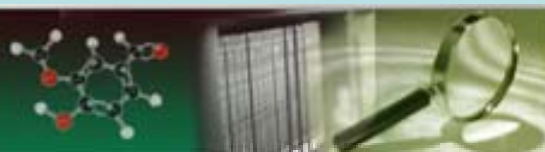


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- **Development and Support of Web Services**



DTIC Web Support



Multilateral Planners Conference VI

Copenhagen, Denmark ~ 13 - 15 May 2008



DEFENSE **SOLUTIONS**.GOV



DOCNET
Doctrine Networked Education & Training



ANTITERRORISM
Level I TRAINING SYSTEM



DoD Issuances

Official Department of Defense Website for DoD Issuances



FEDERAL VOTING ASSISTANCE PROGRAM

Voting Help For Uniformed Service Members, Their Families, & Citizens Living Outside The U.S.



**AIR AND SPACE
INTEROPERABILITY
COUNCIL**





64 Years of DTIC Success to Share with COCOMS

- ❖ DTIC has been successful in providing information to the defense community for more than 60 years by knowing how to present information.
- ❖ DTIC is a vital link in the partnerships among warfighters, the acquisition community, technology providers and information professionals.
- ❖ No matter what the medium, content or dissemination method, DTIC's purpose has always been to help people use information as efficiently as possible to strengthen the nation's defense.



Where Can You Learn More?

Please visit the DTIC exhibit to obtain more information, watch a tutorial, and register for DoDTechipedia and DTIC's other access controlled resources!





DEFENSE TECHNICAL INFORMATION CENTER

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